

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 01259

Luminaire Tested: **INBC100**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 01259
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: INBC100
Description: FAIL-SAFE CAST ALUMINUM HOUSING
FORMED WHITE ENAMEL REFLECTOR
CLEAR VERTICAL PLASTIC ENCLOSURE
Light Source: -
Ballast/Driver: -

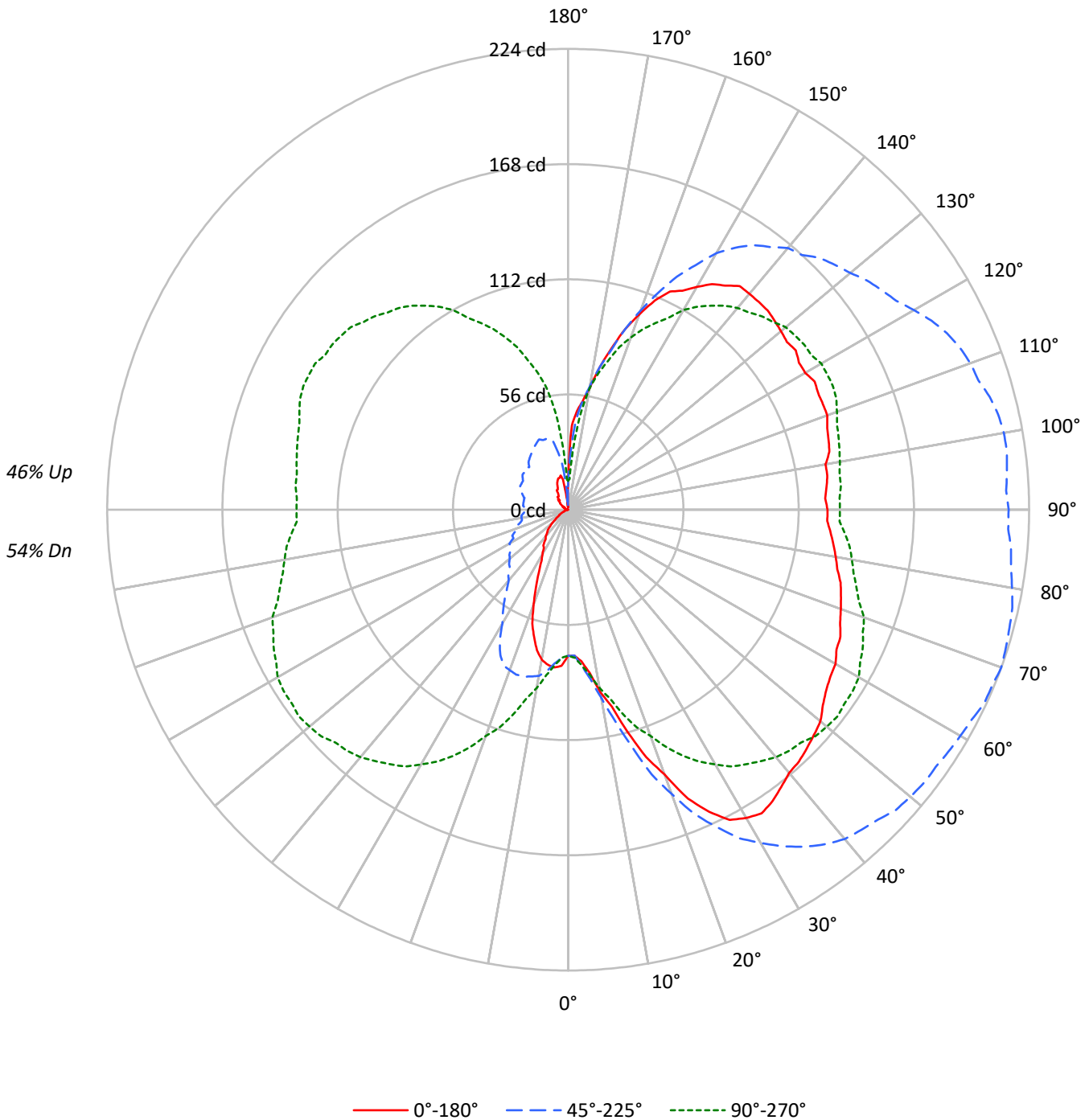
Summary

Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 1383.3 lumens
Efficiency: 79.5%
Efficacy: 13.7 lumens/watt
Spacing Criteria (0/90/45): 1.86 / 2.67 / 2.39
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 0.35' x H: 0.77')
CIE Type: General Diffuse

Input Watts (W): 101
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: 01259
CATALOG NUMBER: INBC100

Luminous Intensity Polar Plot





TEST NUMBER: 01259
 CATALOG NUMBER: INBC100

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	86	86	86	86	80	80	80	80	68	68	68	57	57	57	47	47	47	43
1	75	70	66	62	69	65	61	57	54	51	49	45	43	41	36	35	33	29
2	67	59	53	48	61	55	49	44	46	41	38	38	34	31	30	28	25	22
3	60	51	44	38	55	47	41	35	39	34	30	32	28	25	26	23	20	17
4	55	44	37	31	50	41	34	29	34	29	25	28	24	21	22	19	16	13
5	50	39	32	26	45	36	29	24	30	25	21	25	21	17	20	16	14	11
6	46	35	27	22	42	32	25	21	27	22	18	22	18	15	18	14	12	9
7	42	31	24	19	38	29	22	18	24	19	15	20	16	13	16	13	10	8
8	39	28	21	17	36	26	20	15	22	17	13	18	14	11	14	11	9	7
9	36	25	19	15	33	24	18	14	20	15	12	17	13	10	13	10	8	6
10	34	23	17	13	31	22	16	12	18	14	10	15	11	9	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4963	4963	4963
5°	4354	4624	4531
10°	4602	4773	3784
15°	5099	5074	2914
20°	5659	5316	2024
25°	6167	5606	1294
30°	6150	5741	889
35°	5811	5790	705
40°	5354	5803	545
45°	5066	5751	432
50°	4804	5780	300
55°	4501	5711	206
60°	4359	5653	145
65°	4223	5498	87
70°	4090	5383	58
75°	4017	5200	29
80°	3942	5158	0
85°	3926	5155	0



TEST NUMBER: 01259
 CATALOG NUMBER: INBC100

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	7.6	0.5	0.4	0°	71	71	71	71	71	
10°-20°	28.5	2.1	1.6	5°	74	76	76	75	77	8
20°-30°	55.6	4.0	3.2	15°	112	119	103	84	64	33
30°-40°	79.2	5.7	4.5	25°	162	170	132	78	34	74
40°-50°	97.8	7.1	5.6	35°	173	200	151	54	21	108
50°-60°	112.0	8.1	6.4	45°	164	213	160	40	14	127
60°-70°	120.5	8.7	6.9	55°	153	218	164	34	7	138
70°-80°	122.3	8.8	7.0	65°	146	223	158	30	3	144
80°-90°	121.0	8.7	7.0	75°	137	222	145	24	1	145
90°-100°	119.6	8.6	6.9	85°	128	216	135	22	0	105
100°-110°	116.6	8.4	6.7	90°	126	214	132	22	1	69
110°-120°	110.0	8.0	6.3	95°	126	214	133	22	1	103
120°-130°	95.9	6.9	5.5	105°	131	212	136	22	1	138
130°-140°	78.9	5.7	4.5	115°	134	203	142	26	2	133
140°-150°	59.6	4.3	3.4	125°	135	186	140	27	4	120
150°-160°	37.7	2.7	2.2	135°	137	173	133	29	7	106
160°-170°	17.3	1.2	1.0	145°	133	157	121	32	8	84
170°-180°	3.3	0.2	0.2	155°	117	125	100	36	12	54
0°-30°	91.6	6.6	5.3	165°	81	80	75	34	16	24
0°-40°	170.8	12.3	9.8	175°	48	44	32	11	1	5
0°-60°	380.6	27.5	21.9	180°	14	14	14	14	14	
0°-90°	744.4	53.8	42.8							
90°-120°	346.2	25.0	19.9							
90°-150°	580.6	42.0	33.4							
90°-180°	639.0	46.2	36.7							
0°-180°	1383.3	100.0	79.5							



TEST NUMBER: 01259
 CATALOG NUMBER: INBC100

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	71	71	71	71	71	71	71	71	71
2.5°	71	72	71	71	72	72	72	73	76
5°	74	76	76	76	76	76	75	76	77
7.5°	80	84	83	82	81	81	79	77	76
10°	90	94	93	90	88	87	82	76	74
12.5°	98	105	105	100	94	94	83	72	70
15°	112	119	119	111	103	102	84	70	64
17.5°	126	133	135	121	111	109	84	65	58
20°	137	146	147	130	117	115	83	58	49
22.5°	152	160	160	138	125	123	82	51	41
25°	162	171	170	145	132	128	78	43	34
27.5°	170	180	180	151	138	130	72	37	28
30°	173	185	187	157	143	129	64	31	25
32.5°	175	189	194	164	148	127	59	28	22
35°	173	191	200	169	151	125	54	25	21
37.5°	170	191	205	173	154	121	49	23	18
40°	167	192	209	176	157	117	45	21	17
42.5°	166	193	211	180	159	114	43	19	15
45°	164	195	213	183	160	111	40	17	14
47.5°	162	197	216	186	163	108	39	16	12
50°	160	197	217	189	164	106	37	15	10
52.5°	156	198	218	191	165	104	36	13	8
55°	153	196	218	191	164	102	34	10	7
57.5°	151	195	219	193	164	102	33	9	5
60°	150	195	220	195	163	102	33	9	5
62.5°	147	191	221	194	160	100	30	7	4
65°	146	189	223	194	158	99	30	6	3
67.5°	143	186	223	193	155	97	28	5	2
70°	141	185	224	192	153	97	27	5	2
72.5°	139	182	223	189	148	94	26	3	2
75°	137	181	222	188	145	92	24	3	1
77.5°	134	181	221	185	142	90	23	2	0
80°	132	181	219	184	140	89	23	3	0
82.5°	130	182	217	181	138	87	23	3	0
85°	128	183	216	179	135	86	22	3	0
87.5°	126	181	214	176	132	85	21	2	0
90°	126	182	214	177	132	85	22	3	1
92.5°	125	181	213	177	132	83	21	2	1
95°	126	181	214	178	133	83	22	2	1
97.5°	127	181	215	178	133	84	22	2	1
100°	127	181	215	178	134	84	22	2	1
102.5°	130	181	214	178	135	85	22	2	1
105°	131	181	212	176	136	86	22	2	1
107.5°	132	180	209	176	137	86	23	2	1
110°	134	181	208	177	139	89	24	3	2



TEST NUMBER: 01259
 CATALOG NUMBER: INBC100

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	134	181	206	176	141	90	24	4	2
115°	134	179	203	175	142	91	26	5	2
117.5°	135	179	199	173	142	91	26	5	3
120°	133	178	194	170	142	91	26	6	3
122.5°	133	176	189	166	140	89	26	6	2
125°	135	175	186	163	140	89	27	7	4
127.5°	134	172	183	160	139	89	28	8	5
130°	135	169	179	156	138	88	28	10	5
132.5°	136	166	176	154	135	86	28	10	6
135°	137	163	173	150	133	86	29	11	7
137.5°	137	160	168	146	130	85	28	11	6
140°	137	156	166	143	128	86	30	12	8
142.5°	137	151	161	138	125	86	31	12	8
145°	133	146	157	133	121	87	32	13	8
147.5°	130	141	151	127	117	86	33	14	9
150°	125	136	144	121	112	86	34	14	11
152.5°	120	130	134	113	105	82	35	14	11
155°	117	123	125	106	100	81	36	16	12
157.5°	110	114	114	99	95	77	37	17	14
160°	101	103	103	92	89	73	36	19	15
162.5°	92	92	92	85	83	68	36	20	16
165°	81	79	80	77	75	61	34	20	16
167.5°	71	70	71	70	68	56	34	21	17
170°	60	59	61	61	60	47	28	20	15
172.5°	53	52	53	54	48	35	23	15	6
175°	48	46	44	40	32	21	11	3	1
177.5°	41	34	28	24	15	5	1	2	5
180°	14	14	14	14	14	14	14	14	14

(END OF REPORT)